

Case History—Kansas CCC/USDA Former Grain Storage Facility in Operation from the 1950s to early 1970s

The Problem

- \blacksquare Carbon tetrachloride detected in 1986 in two public water supply wells at levels exceeding the EPA's MCL of 5 $\mu g/L$.
- 1987-1998 investigations:
 - Soil gas surveys
 - Sampling of existing public and domestic wells
 - Installation of a series of monitoring wells
 - Surface soil sampling
 - Geophysical survey to map the bedrock topography of the area
 - Pump tests
 - Modeling of fate and transport
 - Risk assessment

Argonne

Case History A Investigation and Monitoring of the Area over the Last 17 Years Confirmed the Historic Release of Carbon Tetrachloride at Three Locations

- The former CCC/USDA grain storage facility
- The Co-op
- Area associated with former retail store

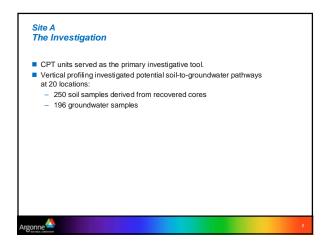
Argonne

1961 Aerial Photo of the Case Location

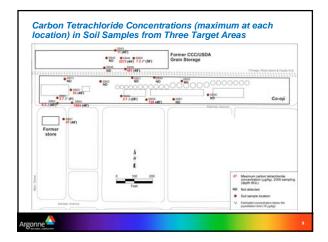
Argonne

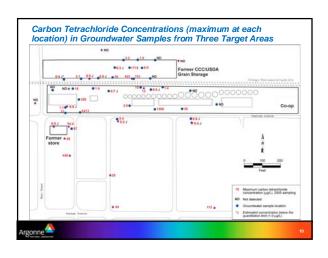
Case History A
Focus of the Current Investigation

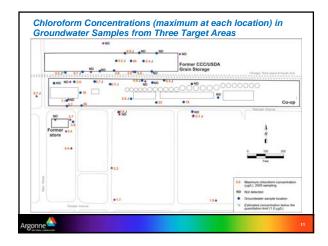
Verify and update the conceptual site model
Investigate sources of previously identified carbon tetrachloride contamination in groundwater
Develop a series of recommendations regarding remediation options for the site

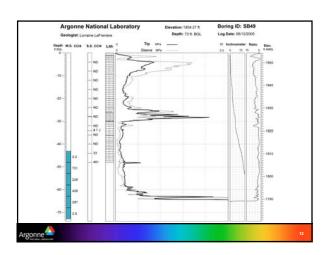


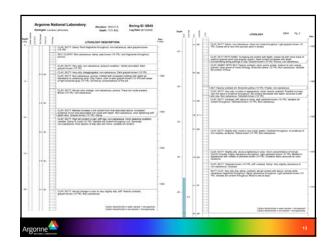


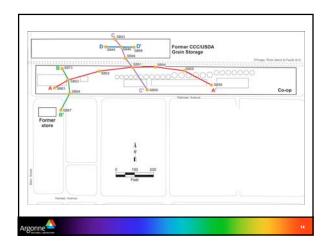


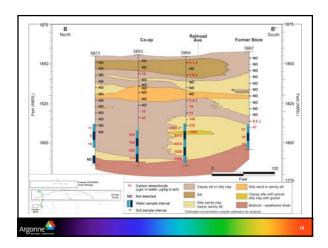


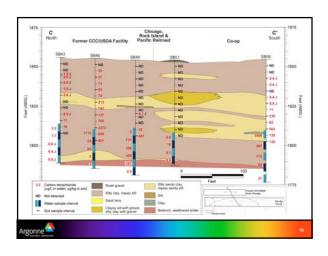


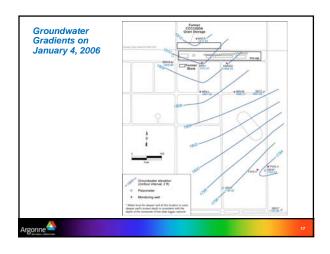


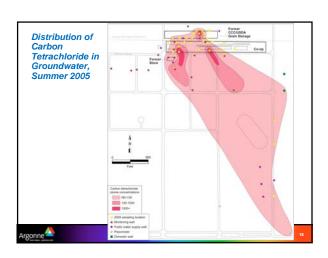












Case History Site A Conclusions Three point sources identified—confirmation of PRPs Surface-to-groundwater pathway for contamination established Installation of monitoring wells with CPT Point source remediation alternative being identified Cooperation among PRPs Remediation alternatives may involve use of CPT to inject materials CPT to monitor progress and effectiveness of remediation